

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
PTO-1449

W&W File No.: 3012 P0002  
Application No.: 09/879,633  
Applicants: Dr. Braja Mandel et al.  
Filing Date: June 12, 2001  
Art Unit: 1713

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**U.S. PATENT DOCUMENTS**

Examiner Initial	U.S. Patent Document No.	Name of Patentee or Applicant	Class/ Subclass	Date of Publication
a	3,876,654	Pattison	—	4/8/75
	3,894,118	Aronoff et al.	—	7/8/75
	3,909,484	Beavon	—	9/30/75
	4,071,664	Dey	—	1/31/78
	4,200,568	Trautvetter at al.	—	4/29/80
	4,489,196	Schmiegel	—	12/18/84
	4,496,682	Schmiegel	—	1/29/85
	4,522,901	Shacklette	—	6/11/85
	4,774,011	Mori et al.	—	9/27/98
	4,858,078	Morimoto et al.	—	8/15/89
	4,868,234	Tabb	—	9/19/89
	4,894,302	Hoffman et al.	—	1/16/90
	5,061,581	Narang et al.	—	10/29/91
	5,114,809	Nakacho et al.	—	5/19/92
	5,151,462	El-Hibri et al.	—	9/29/92
	5,214,370	Harm et al.	—	5/25/93
	5,354,631	Chaloner-Gill et al.	—	10/11/94
	5,376,478	Nakacho et al.	—	12/27/94
	5,415,958	Takahashi et al.	—	5/16/95
	5,418,091	Gozdz et al.	—	5/23/95
	5,429,891	Gozdz	—	7/4/95
✓	5,455,127	Olsen et al.	—	10/3/95

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SEP 21 2001  
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SEP 21 2001  
PATENT & TRADEMARK OFFICE

Examiner Initial	U.S. Patent Document No.	Name of Patentee or Applicant	Class/ Subclass	Date of Publication
cc	5,456,000	Gozdz et al.		10/10/95
	5,460,905	Gozdz		10/24/95
	5,468,571	Fujimoto et al.		11/21/95
	5,567,546	Maly-Schreiber et al.		10/22/96
	5,574,355	McShane et al.		11/12/96
	5,580,684	Yokoyama et al.		12/3/96
	5,623,195	Bullock et al.		4/22/97
	5,639,574	Hubbard et al.		6/17/97
	5,642,100	Farmer		6/24/97
	5,739,234	Kashio et al.		4/14/98
	5,830,600	Narang et al.		11/3/98
	6,046,481	Ishikura et al.		6/20/00
	6,077,624	Mitchell et al.		6/20/00
	6,137,269	Champlin		10/24/00

### FOREIGN PATENT DOCUMENTS

Examiner Initial	Foreign Patent Document			Name of Patentee or Applicant	Date of Publication	T
	Office	Number	Kind			
cc	JP	7,192,762	A2	Shigeru	7/28/95	
	EP	0164254	A2	Prater	12/11/85	
	EP	0141371	A1	Shishikura et al.	5/15/85	
	EP	0141371	B1	Shishikura et al.	8/10/88	
	EP	0938151	A2	Arai et al.	8/25/99	



## OTHER PRIOR ART OR NON-PATENT LITERATURE DOCUMENTS

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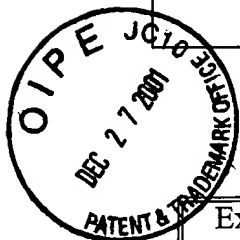
Examiner Initial	(including Author (in capital letters), Title of the article, Title of the item, Date, Pages, Volume-Issue number, Publisher, City and/or Country where published.)	T
ce ↓ ↓ ↓	Mukaiyama, Teruaki; Obata, Teisuke; and Mitsunobu, Oyo; "Phosphorylation of Alcohols by the Use of Benzyldiethyl Phosphite and Monobromocyanoacetamide of N-Bromosuccinimide," <u>Bulletin of the Chemical Society of Japan</u> , Vol. 38, No. 7, July 1965, pp. 1088-1091.	
	Mukaiyama, Teruaki; Obata, Teisuke; and Mitsunobu, Oyo; "Phosphorylation by the Use of Diethylphosphorosuccinimide," <u>Bulletin of the Chemical Society of Japan</u> , Vol. 38, No. 7, July 1965, pp. 1091-1093.	
	Brydson, J.A., <u>Plastics Materials</u> , 5 <sup>th</sup> Ed., 1989, pp. 128-142.	
	Bindra, Ahshok, "New Self-Extinguishing Electrolyte Should Lead to Non- Flammable Lithium-Ion Battery," <u>Electronic Design</u> , Vol. 46, No. 12, May 25, 1998, p. 31.	

Examiner: Carol ChoneyDate Considered: 9-30-03

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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# OTHER PRIOR ART OR NON-PATENT LITERATURE DOCUMENTS

Examiner Initial	(including Author (in capital letters), Title of the article, Title of the item, Date, Pages, Volume-Issue number, Publisher, City and/or Country where published.)	T
	CHANG WOO LEE et al., "A Novel Flame-Retardant Additive for Lithium Batteries," 3 (2) (2000), pp. 63-65, <u>Electrochemical and Solid-State Letters</u> , Chicago, IL, USA	
	WU, C., "Stopping Batteries from Starting Fires," (February 12, 2000), page 103, <u>Science News</u> , Vol. 157, USA	
	MANDAL, BRAJA K. et al., "New Class of Single-Ion-Conducting Solid Polymer Electrolytes Derived from Polyphenols," <u>Chemistry of Materials</u> , 12(1), pages 6-8, (2000), Published on Web December 15, 1999, USA	
	VENKATACHALAPATHY, RAJEEV et al. "Thermal Investigations of Transitional Metal Oxide Cathodes in Li-ion Cells," <u>Electrochemistry Communications</u> , vol. 2, pp. 104-107, (2000)	
	MEHTA, MARY ANNE et al., "Transference Number Enhancement in Polymer Electrolytes by Incorporation of Anion Trapping Boroxine Rings into the Polymer Host," <u>Chemistry Letters</u> (Chemical Society of Japan), pp. 915-916 (1997)	
	DES MARTEAU, DARRYL D., "Novel Perfluorinated Ionomers and Ionenes," <u>Journal of Fluorine Chemistry</u> , Vol. 72, pp. 203-208 (1995)	
	RAZAQ, M. et al., "Perfluorosulfonimide as an Additive in Phosphoric Acid Fuel Cell," <u>J. Electrochem. Soc.</u> , Vo. 136, No. 2, pp. 385-390, (February 1989)	
	MOSKVA, V.V. et al. "Diethyl Formylphosphonate," translated from <u>Zhurnal Obshchei Khimii</u> Vol. 57, No. 12, pp. 2793-94, (December 1987)	
	MUKAIYAMA, TERUAKI et al., "Phosphorylation of Alcohols by the Use of Benzyl-diethyl Phosphite and Monobromocycanoacetamide or N-Bromosuccinimide," <u>Bulletin of the Chemical Society of Japan</u> , Vol. 38, No. 7, pp. 1088-1091 (July 1965)	
	BRYDSON, J.A., <u>Plastics Materials</u> , 5 <sup>th</sup> Ed. (1989) pp. 56-105, and 118-149.	

Examiner: \_\_\_\_\_

Date Considered: \_\_\_\_\_

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DEC 31 2001  
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# OTHER PRIOR ART OR NON-PATENT LITERATURE DOCUMENTS

Examiner Initial	(including Author (in capital letters), Title of the article, Title of the item, Date, Pages, Volume-Issue number, Publisher, City and/or Country where published.)	T
ca	CHANG WOO LEE et al., "A Novel Flame-Retardant Additive for Lithium Batteries," 3 (2) (2000), pp. 63-65, <u>Electrochemical and Solid-State Letters</u> , Chicago, IL, USA	
ca	WU, C., "Stopping Batteries from Starting Fires," (February 12, 2000), page 103, <u>Science News</u> , Vol. 157, USA	
ca	MANDAL, BRAJA K. et al., "New Class of Single-Ion-Conducting Solid Polymer Electrolytes Derived from Polyphenols," <u>Chemistry of Materials</u> , 12(1), pages 6-8, (2000), Published on Web December 15, 1999, USA	
ce	VENKATACHALAPATHY, RAJEEV et al. "Thermal Investigations of Transitional Metal Oxide Cathodes in Li-ion Cells," <u>Electrochemistry Communications</u> , vol. 2, pp. 104-107, (2000)	
ca	MEHTA, MARY ANNE et al., "Transference Number Enhancement in Polymer Electrolytes by Incorporation of Anion Trapping Boroxine Rings into the Polymer Host," <u>Chemistry Letters</u> (Chemical Society of Japan), pp. 915-916 (1997)	
ca	DES MARTEAU, DARRYL D., "Novel Perfluorinated Ionomers and Ionenenes," <u>Journal of Fluorine Chemistry</u> , Vol. 72, pp. 203-208 (1995)	
cc	RAZAQ, M. et al., "Perfluorosulfonimide as an Additive in Phosphoric Acid Fuel Cell," <u>J. Electrochem. Soc.</u> , Vo. 136, No. 2, pp. 385-390, (February 1989)	
ca	MOSKVA, V.V. et al. "Diethyl Formylphosphonate," translated from <u>Zhurnal Obshchei Khimii</u> Vol. 57, No. 12, pp. 2793-94, (December 1987)	
ca	MUKAIYAMA, TERUAKI et al., "Phosphorylation of Alcohols by the Use of Benzyl-diethyl Phosphite and Monobromocycanoacetamide or N-Bromosuccinimide," <u>Bulletin of the Chemical Society of Japan</u> , Vol. 38, No. 7, pp. 1088-1091 (July 1965)	
ca	BRYDSON, J.A., <u>Plastics Materials</u> , 5 <sup>th</sup> Ed. (1989) pp. 56-105, and 118-149.	

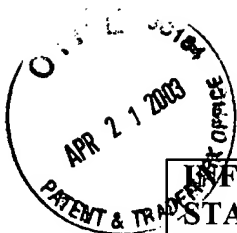
Examiner: Am Chm

Date Considered: 7-30-02

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> PTO-1449	W&W File No.: 3012 P0002 Application No.: 09/879,633 Applicants: Dr. Braja Mandal et al. Filing Date: June 12, 2001 Art Unit: 1713
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<i>α</i>	TECHDRIVE, INC., "Novel Flame-Retardants for Self-Extinguishing Lithium-ion Battery Electrolytes: Phase II Final Report" submitted to the United States Department of Energy in November 2002 pursuant to Grant No. DE-FG02-99ER82905	

Examiner: Carol Chaney Date Considered: 9-30-03

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